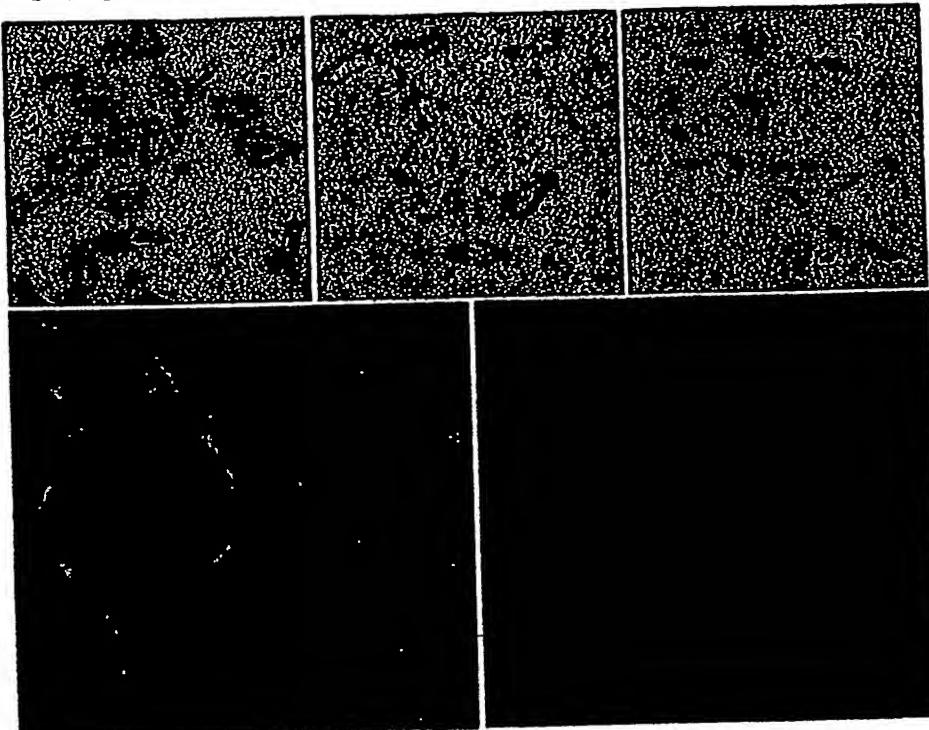
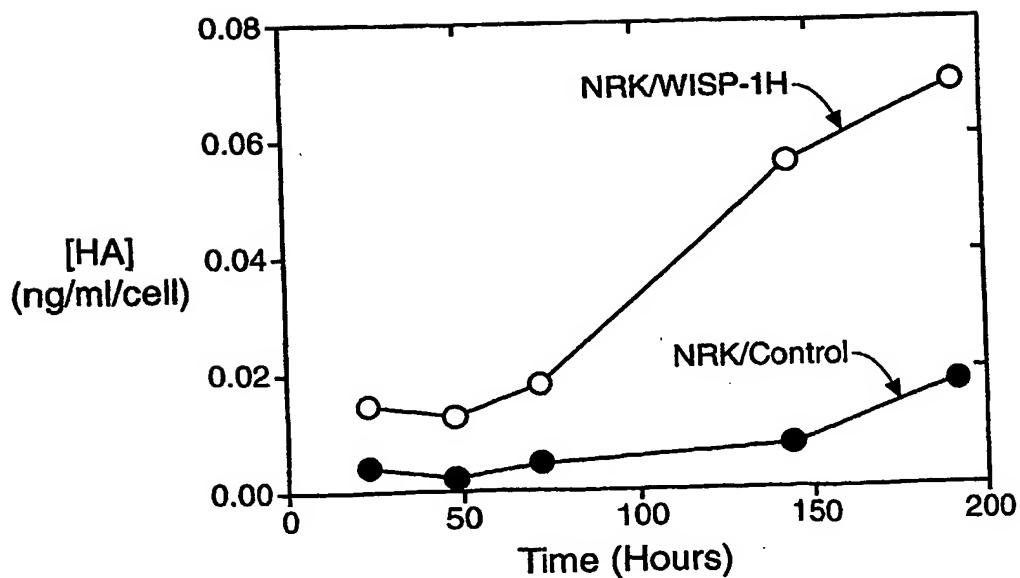
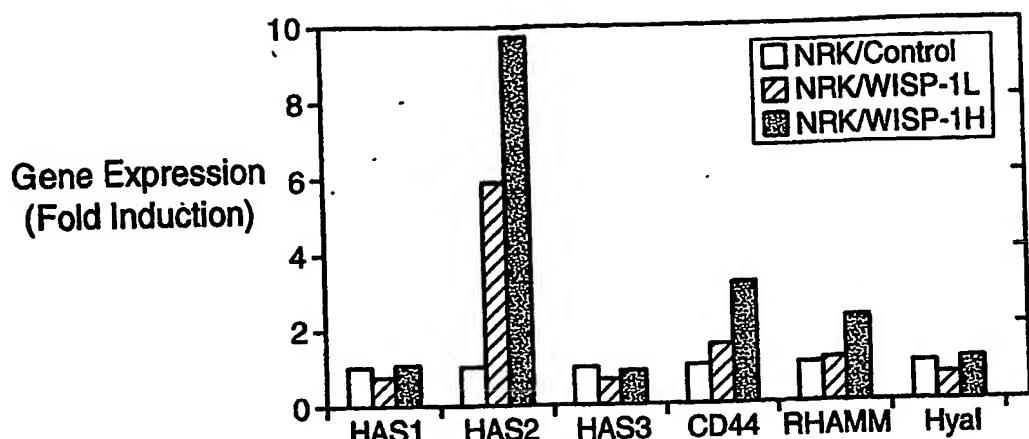
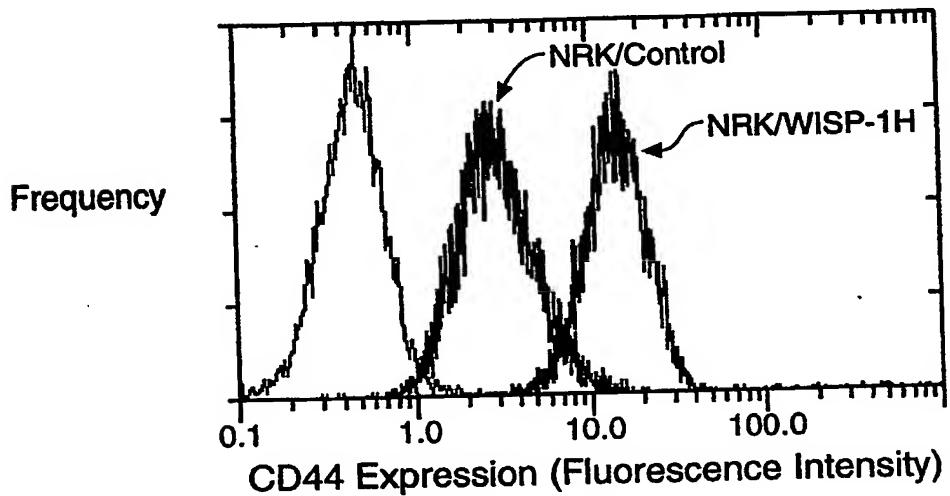
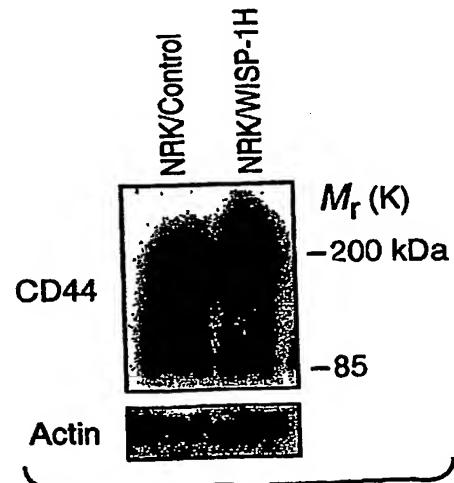


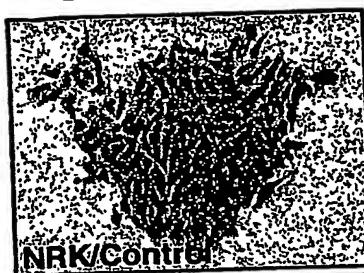
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FIG._ 1A**FIG._ 1B****FIG._ 1C****FIG._ 1D****FIG._ 1E****FIG._ 1F****BEST AVAILABLE COPY**

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**FIG.-2A****FIG.-2B****FIG.-2C**

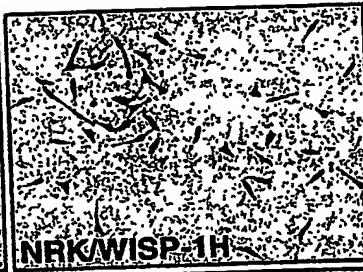
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FIG._3A

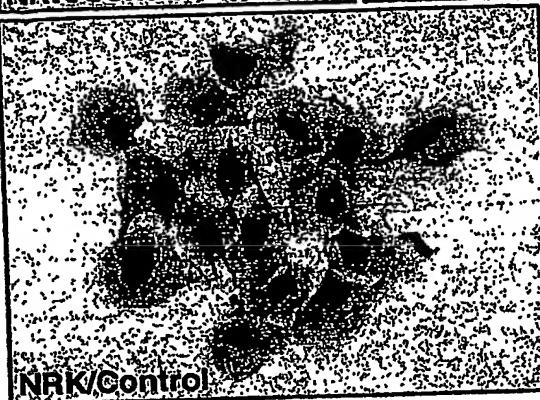
NRK/Control

FIG._3B

NRK/WISP-1L

FIG._3C

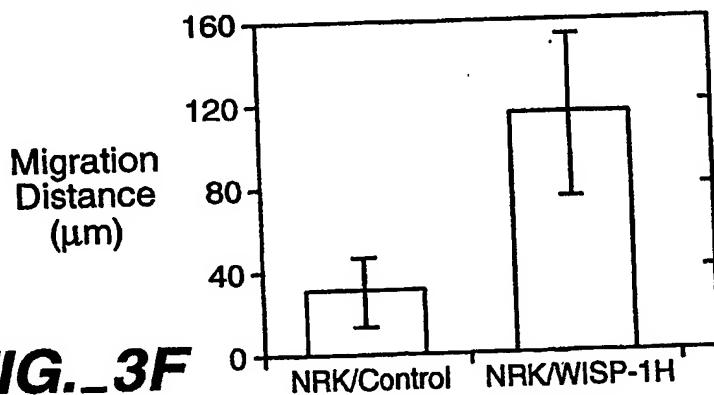
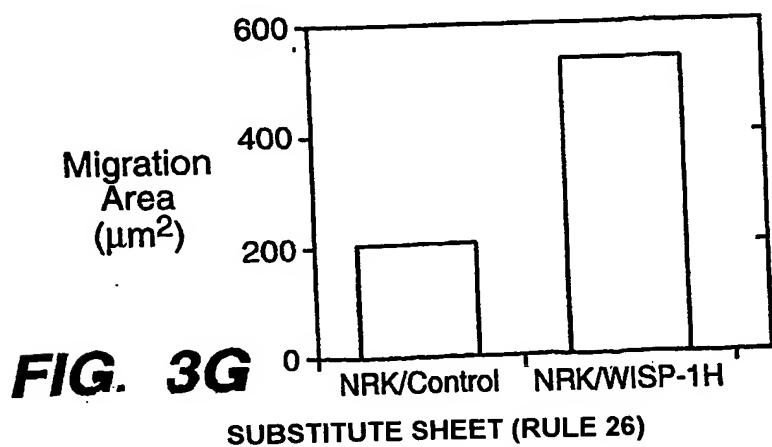
NRK/WISP-1H



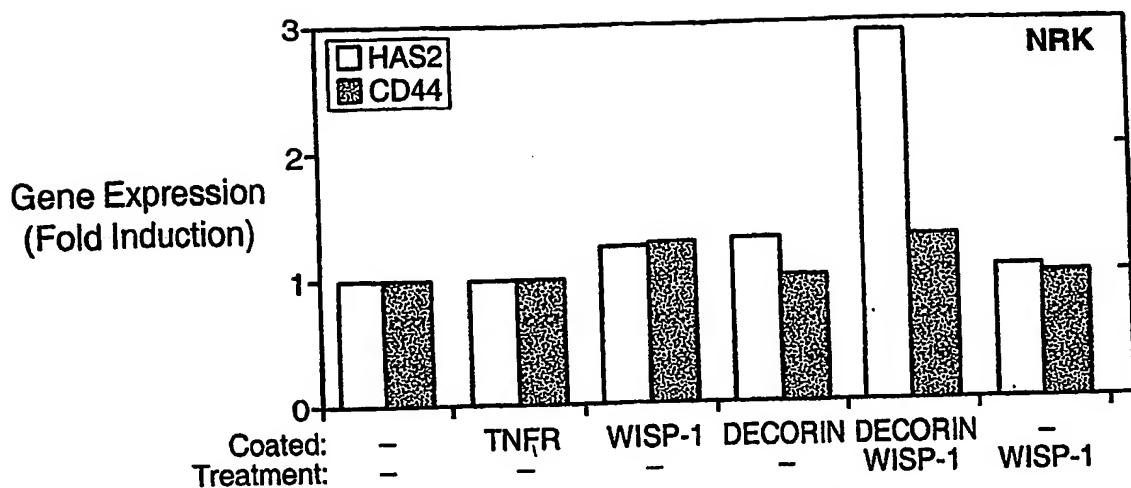
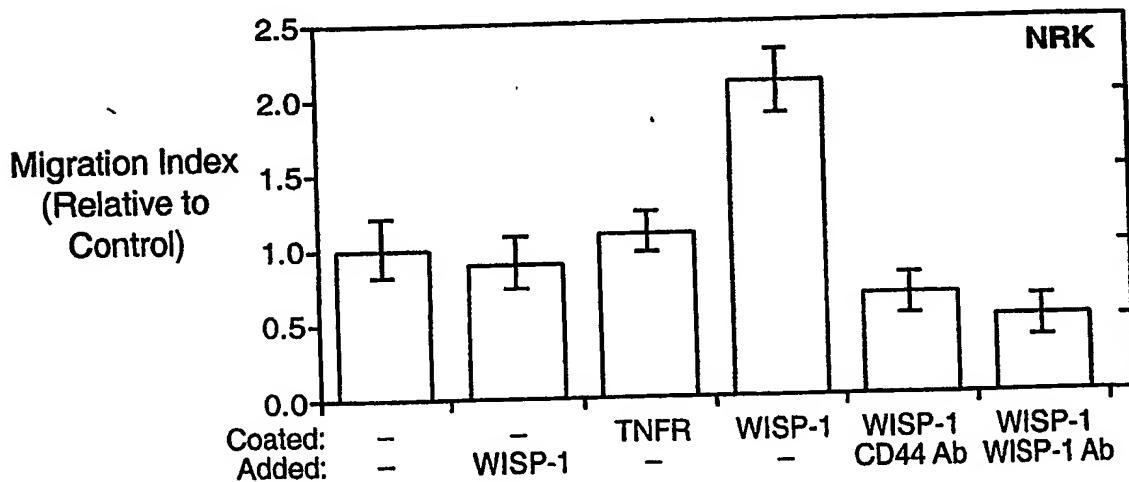
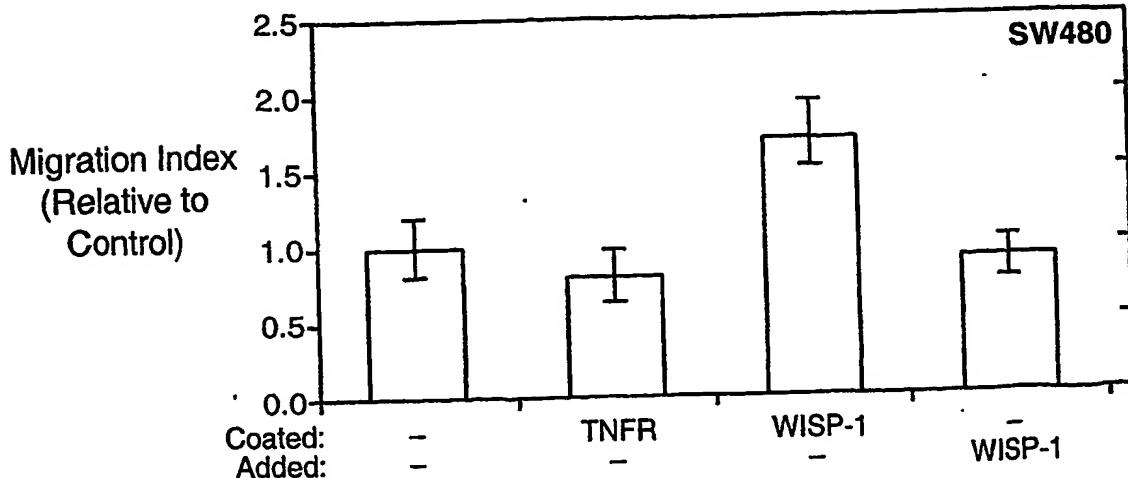
NRK/Control



NRK/WISP-1H

FIG._3D**FIG._3E****FIG._3F**Migration Area (μm^2)**FIG. 3G**

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**FIG._4A****FIG._4B****FIG._4C**

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FIG._5C

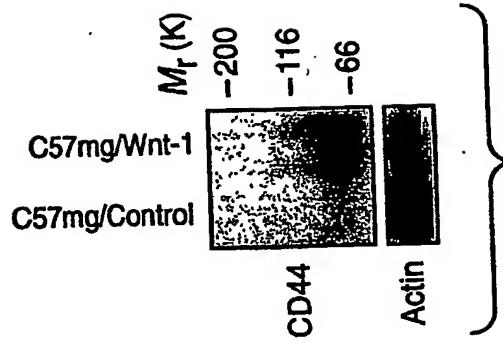


FIG._5B

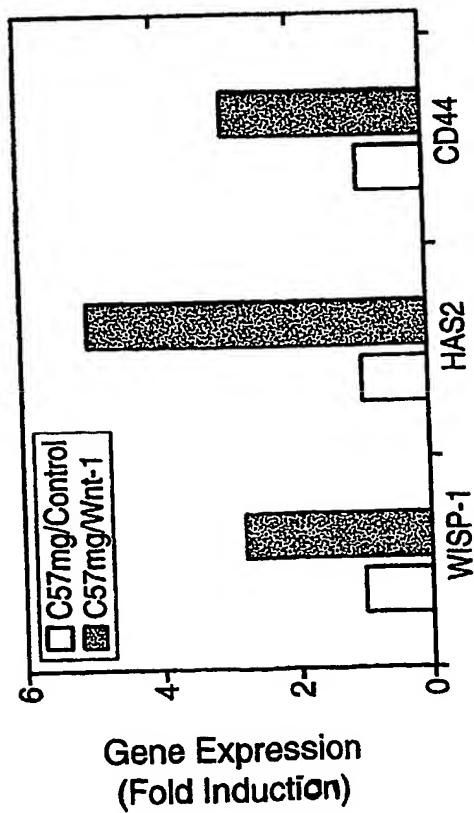


FIG._5A

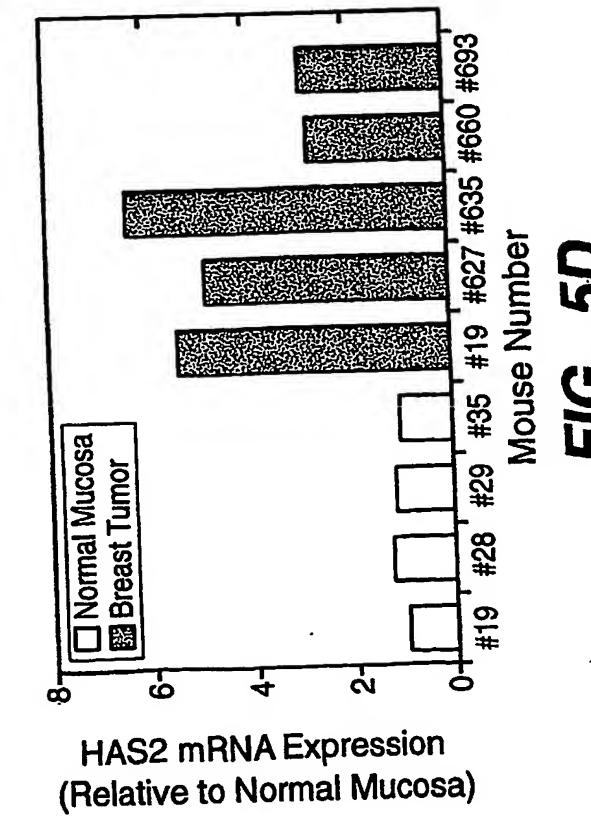


FIG._5D



FIG._5E

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FIG._6A

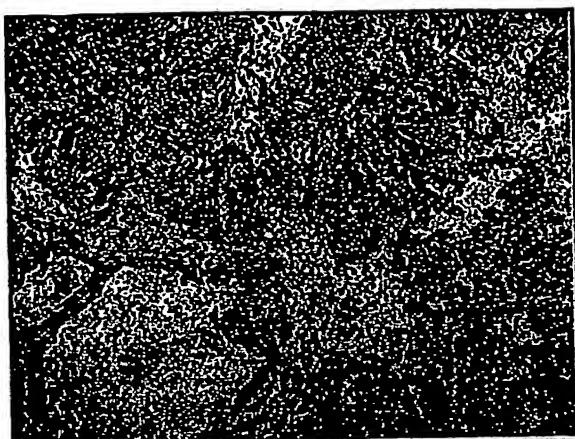


FIG._6B

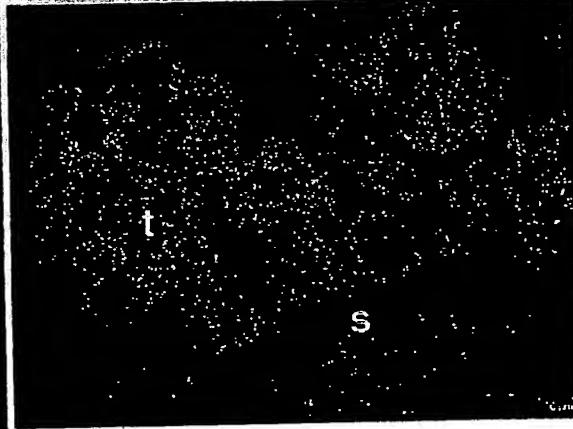
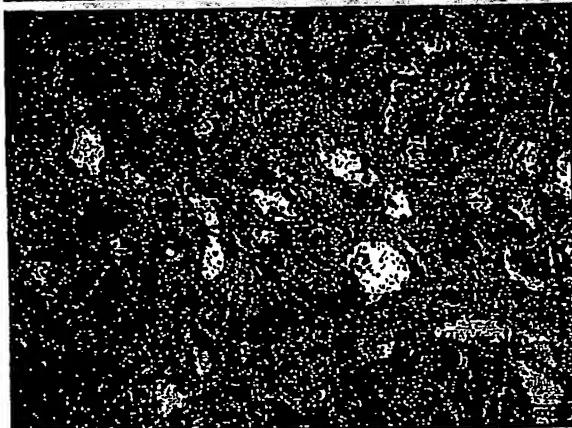
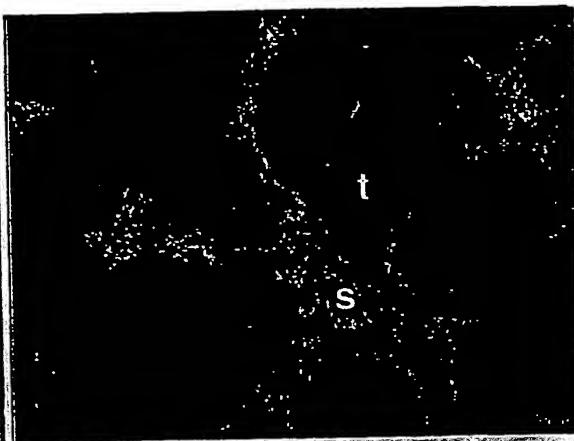


FIG._6C

FIG._6D

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FIG._6E

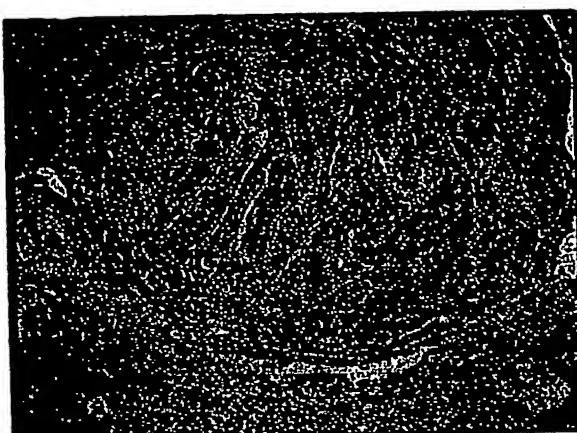


FIG._6F

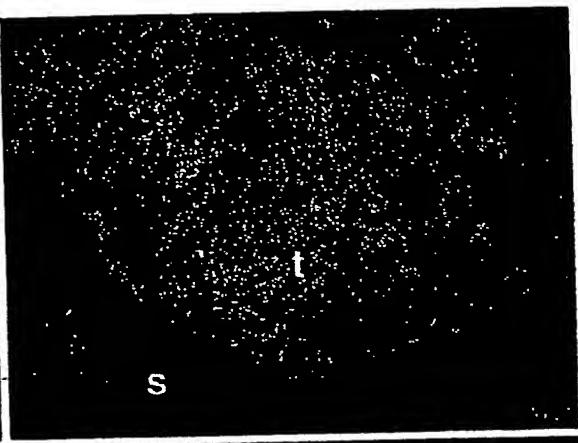


FIG._6G

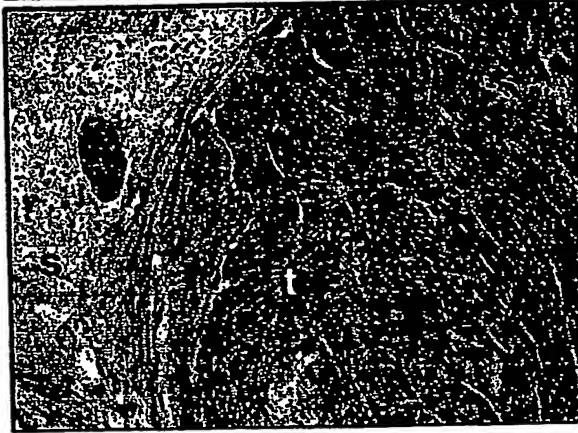
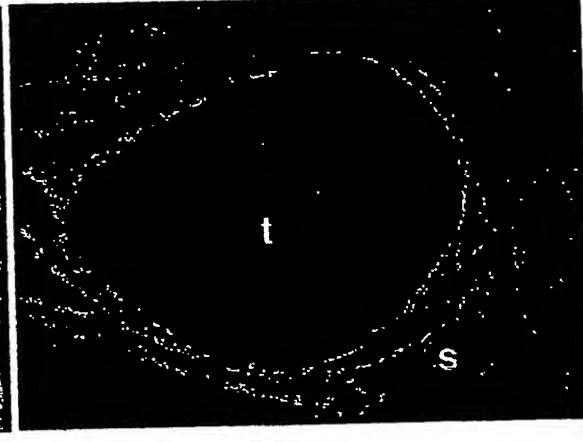
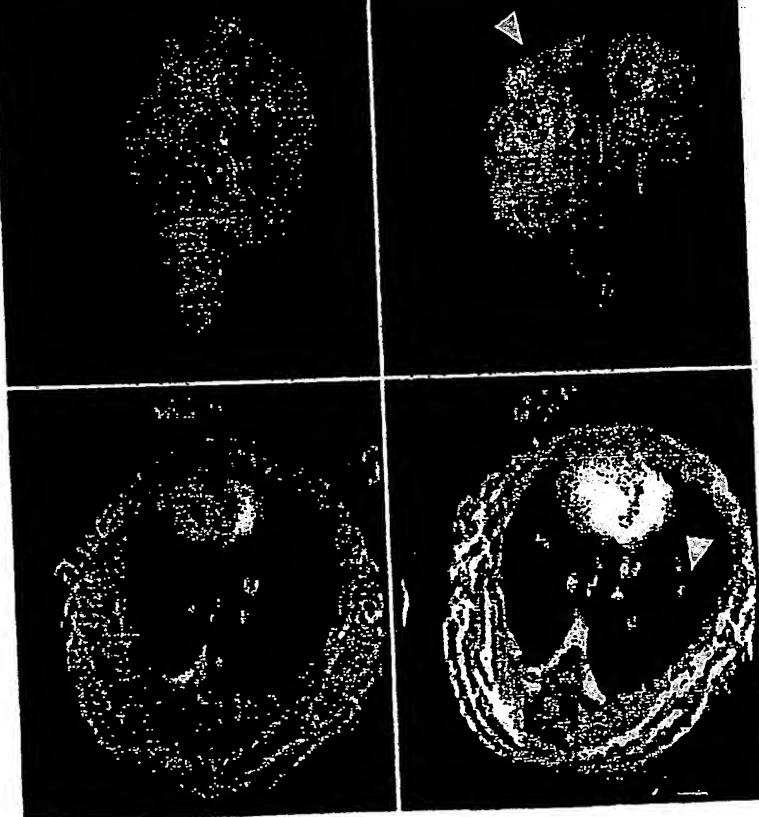
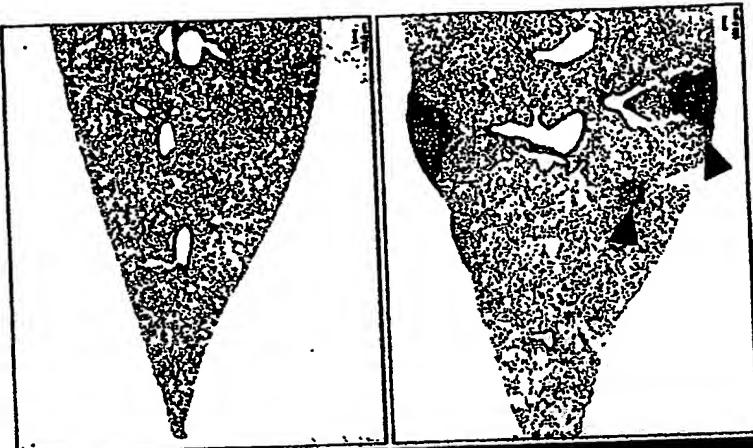


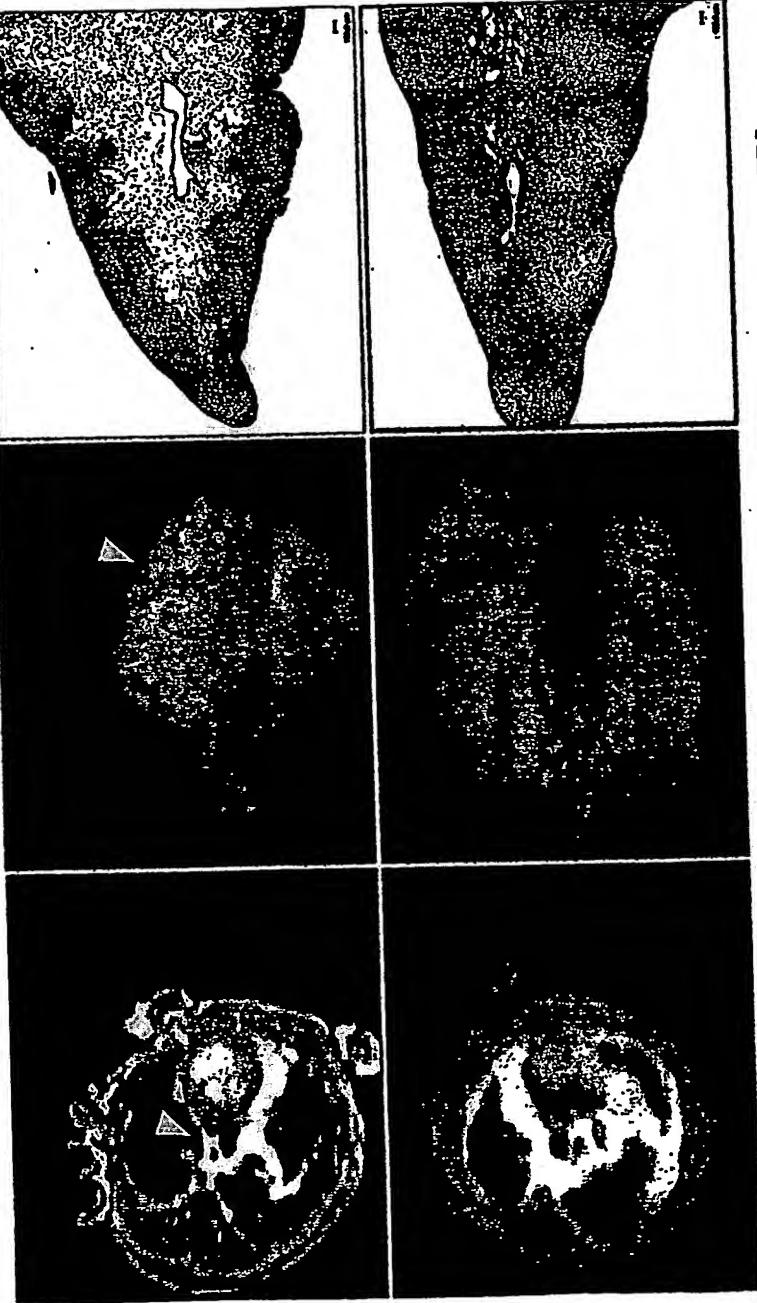
FIG._6H



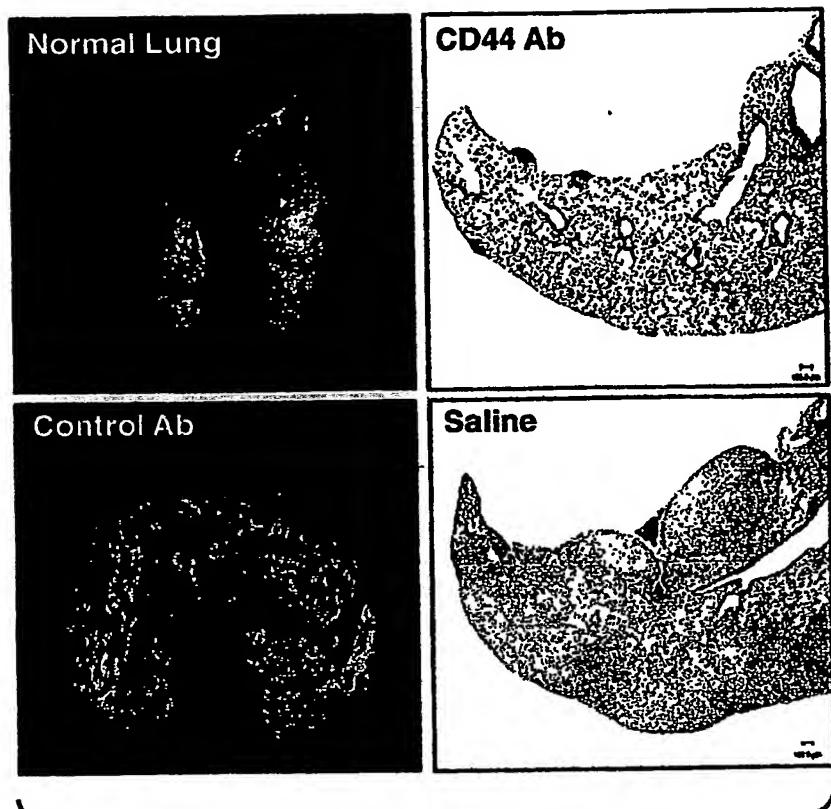
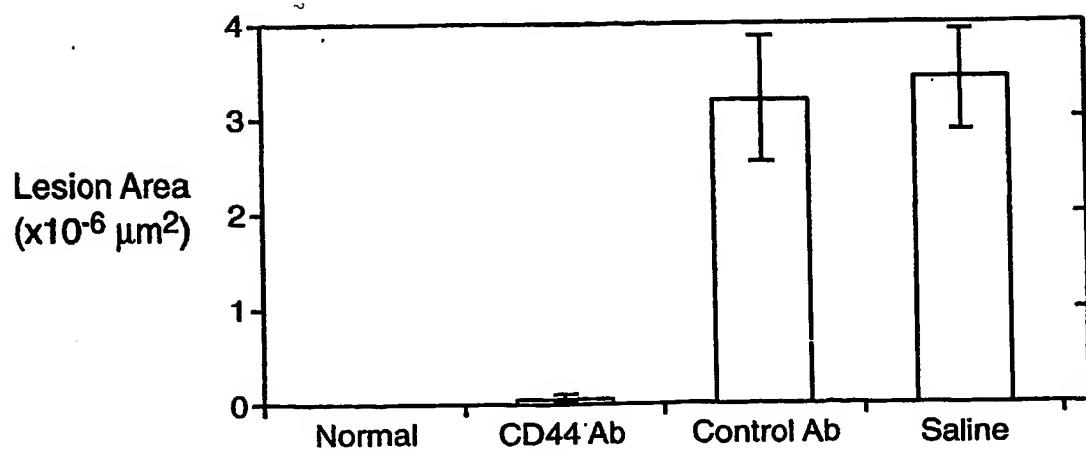
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FIG._7A**FIG._7C****FIG._7F****FIG._7E****FIG._7D**

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FIG._7G*FIG._7H**FIG._7I**FIG._7J**FIG._7K**FIG._7L*

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**FIG._8A****FIG._8B**

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1 CCCACGGTC CGCTGGCCC AGAGGCCCC AGCTCCCCC GGATCCTCTG GGCTGGTC GGCTGGTC GGCTGGTC TGCGATGCCCTG TGCCACTGAC GTCCAGGCAT GAGGTGGTCA
GGGTGGAG GCGACCCGGG TCTCCACCAAG CCTAGGAGAC CCGACGAGCC AGCTAGGAC ACGGTAGCTG CAGGTGACTG M R W F

101 CTGCCCTGGA CGCCTGGCAG AGTGCAGGA GCAGGCAGCA GCACCGTCCCT GGCCACGGCC CTOTCTCCAG CCCCTAGAC CATGACTTT ACTCCAGGCTC
GACGGACCT GCGACCGGTG TCACTGGCTG CGTCTGGGT CGTCTGGGT CGTCTGGGT CGGAGAGGTC GAGAGGGAA GTACCTGCTG GTACCTGAAA TGAGGTGGAG
5 L P W T L A A V T A A S T V L A T A L S P A P T T M D F T P A P

201 CACTGGAGGA CACCTCCTCA CGCCCCCAAT TCTGCAAGTG GCCATGTGAG TGCCCTGGCAT CCCAACCCCCG CTGCCCCGCTG GGGGTAGGCC TCATCACAGA
GTGACCTCT GTGGAGGAGT GGCGGGGTAGT AGACGTTCAAC CGGTACACTC ACGGTAGCTAC CCGTACACTC AGCAGGCTAA GGGTGGGGC GACGGGGAC CCCAGTGGG AGTAGTGTCT
39 L E D T S S R P Q F C K W P C E C P P S P P R C P L G V S L I T D

301 TGGCTGTGAG TGCTGTAAGA TGTGCGCTCA CGAGCTTGGG GACAACATGCA CGAGGGCTGCA CATCTGTGAC CCCAACGGG GCCTCTACTG TGACTACAGC
ACCGACACTC ACGACATCTT ACACGGGAAT CGTCAAAACCC CTTGTTGACST GCCTCTGGACG GTAGACACTG GGGTAGATGAC ACTGATGGTC
72 G C E C C K M C A Q Q L G D N C T E A A I C D P H R G L Y C D Y S

401 GGGGACCCCG CGAGCTGACGC AATAGGAGTG TGTGACAGG TGTGCGGTG GGGCTGGCTC CTGGATGGGG TGCGCTAACAA CAACGCCAG TCCCTCCAGC
CCCTGGGG GCTCCATGGG TTATCCTAAC ACACGGTAAC ACCAGCCACA CCCGACGGAG GACCTAACCC AGCGGATGTT GTGCGGGTC AGGAAGGGTC
105 G D R P R Y A I G V C A Q V V G V G C V L D G V R Y N N G Q S F Q P

501 CTAACTGCAA GTRACAACATGC ACGTGCATCG TGTGCGACGG TGTGCGGTG GGGCTGGACA CCACATGTGCC TCGGATGTGCC CCCCTGGGT CTCTGGGCC CCCACCCGGC
GATTGACGTT CATTGCGACG TGACGTYAGC TGCCGGCCA CCCGACGTT GGTGACACGG AGGCTCACGC GAGGACACGG GGGTGGGGC
139 N C K Y N C T C I D G A V G C T P L C L R V R P P R L W C P H P R

601 GCGCGTGGC ATACCTGGCC ACTGCTGTGA GCAGTGGGTA TGTGAGGAAG AGGCCAAAG GCGACCCAG ACCGCCAGG AGCCTTGAT
CGCGCACTCG TAGGACCGG TGACGACACT CGTCAACCAT ACACCTCTGC TGCGGTCTC CGCTGGGTGGG CACTGTGTC TCAGGACTGAA
172 R V S I P G H C C E Q W V C E D D A K R P R K T A P R D T G A F D

701 GCTGTGGGTG AGGTGGGGC ATGGCACAGG AACTCCATAG CCTACACAGG CCTCTGGAGC CCTCTGGCTCA CCAGCTGGGG CCTGGGGGGTIC TCCACACTGGA
CGACACCCAC TCCACCTCCG TACCGTGTCC TTGACGTATC GGATGTGTT CCGTGGGTGGTGGG CCAACGAGGT GGTCGACGCC GGACCCCGAG AGGTGGGGCT
205 A V G E V E A W H R N C I A Y T S P W S P C S T S C G L G V S T R I

801 TCTCCAATGT TAACGCCCCAG TGCTGGGCTG AGCAAGAGAG CCGCCTCTGC AACTTGTGGC CATGGATGTT GGACATCCAT ACACTCATTA AGGCAGGGAA
AGAGGTACAA ATTGGGGGTCA AGGACGGAC TCGTTCTCTC GGCGGAGAGC TTGAACGCCG GTACGCTACA CCTGTAGGATA TGTTGAGGAAAT TCCGTCCCTT
239 S N V N A Q C W P E Q E S R L C N L R P . C D V D I H T L I K A G K

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FIG.-9A

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901 GAAGTGTGTC AGCCAGGG ATCCATGAAC TTACACTTG CGGGCTGCAT CAGCACACGC TCCTATCAA CCAAGTACTG TGGAGTTGC
CTTCACAGAC CGACACATGG TCGGTCTCG TAGTACTTG AAGTGTGAC GCCCAGCTA GTCGTGTGCG AGGATAAGTGG GGTTCATGAC ACCTCAAG
272 K C L A V Y Q .P E A S M N F T L A G C I S T R S Y Q P K Y C G V C
1001 ATGGACAAATA GGTGCTGCAT CCCCTAACAG TCTAAAGACTA TCGACGTGTC CTTCCAGGT CCGTATGGGC CCTGGTTCTC CCGCAGGTC CTATGGATA
TACCTGTAT CCACGAGTA GGGGATGTC AGATTGTAT AGCTGTGACAG GAAGGTACA GGACTAACCG AACCGAAGAG GGGGGTCCAG GATACTTAAT
305 M D N R C C I P Y K S K T I D V S F Q C P D G L G F S R Q V L W I N
1101 ATGCCCTGCTT CTGTAACCTG AGCTGTAGGA ATCCAAATGA CATCTTGTGCT GACTTGGAA CCTAACCTGAA CTTCCTGAGA ATTGCCAACT AGGCAGGGAC
TACGGACAA GACATTGGAC TCGACATCT TAGGTTACT GTAGAAACGA CTGAACCTA GGATGGACTT TAACGGTTGA TCGGTCTGG
339 A C F C N L S C R N P N D I F A D L E S Y P D F S E I A N O
1201 AAATCTTGGG TCTTGGGAC TAACCCAATG CCTGTGAAGC AGTCAGCCCT TATGGCCAAT AACCTTTCAC CAATGAGCCT TAGTTACCT GATCTGGGACC
TTAGAACCC AGAACCCCCCTG ATGGGTAC GCACACTTGC TCAAGTGGGA ATACCGGTTA TGAAAAGTG GTTACTCGGA ATCAATGGGA CTAGACCTGG
1301 CTGGCCCTCC ATTCTGTCT CTAACCATTC AAATGACGCC TGATGGTGCCT GCTCAGGGCC ATGCTATGAG TTTCTCTT GATATCATT AGCATCTACT
GAACGGGG TAGAGACAGA GATGGTAGG TTACAGCGG ACTACCACGA CGAGTCCGG TAGATACTC AAAGGGAA CTATAGTAAG TCGTAGATGA
1401 CTAAAGAAA ATGCCCTGTCT CTAGCTCTC TGGACTACAC CAAAGCTGA TCCAGCCTT CCAGTCCTG AGAGTCCTG CTGATCTTG CCTAAATCCC
GATTCTTT TACGGACAGA GATCGACAAAG ACCTGATGTG GCTTCGGACT AGGTGGAAA GTTCACTGA TCTTCAGGAC GACTAGAAC GGATTAGGG
1501 AGAAATGGA ATCAGGTAGA CTTTTAATAT CACTAATTTC TCTTTAGAT GCCAAACCAC AAGACTCTT GGGTCCATT AGMTGAATAG ATGGAATTG
TCTCTTACCT TAGTCCATCT GTGTTAAG AGAAATCTA CGGTTGGTG TCTGAGAAA CCCAGGTAAG TCTACTTAC TACCTAAAC
1601 GAAACAAATA ATAATCTATT ATGGAGGC TGCCAAAGGG TACTGTAATG GGTAAATTG ACGTCAAGGC ACCAAAACTA TCTGTATTCC AAATATGTAT
CTTGTATCT TATTAGATAA TAAACCTGG ACGGTTCTCC ATGACATTAC CCATTAGAC TGGACTCGCG TGTTTTGAT AGGACTAAAG TTATACATA
1701 GCACCTCAAG GTCAATCAAC ATTTGCCAAG TGAGTGTAA AGTTGCTTA TTTGATTT TAATGGAAG TTGTATCC TAACTCTGGC ATTTGAGG
CGTGGAGTTC CAGTAGTTG TAAACGTTT ACTCAACTTA TCAAGAATT AAAACTAAA ATTACCTTC AACATGGTA ATTGGACCCG TAACAACCTCC
1801 TAAAGTTCT CTTCAACCCCT ACAGTGTGAA GGGTACAGAT TAGGTTCTC CCAGTCAGAA ATAAATTTG ATAAACATT CTGTTGATGG GAAAAGCCCC
AATTCAAAGA GAAGTGGGA TGTGACACTT CCCATGTCTA ATCCAAACAG CCTCACTCTT TATTGTAAG GACAACCTAC CTTTTCGGGG
1901 CAGTTATAC TCCAGAGACA GGGAAAGGGTC AGCCCATTC AGAAGGGCCA ATTGACTCTC ACACGAAATC AGCTGCTGAC TGGCAGGGCT TTGGGAGGT
GTCAATTATAG AGGTCTCTGT CCCATTCCAG TCACTGAGAG TGTGACTTAG TCGACGACTG ACGTGTGAAAG TCTTCCTGGT TAACGTGAA AACCCGGCAA

FIG.-9B

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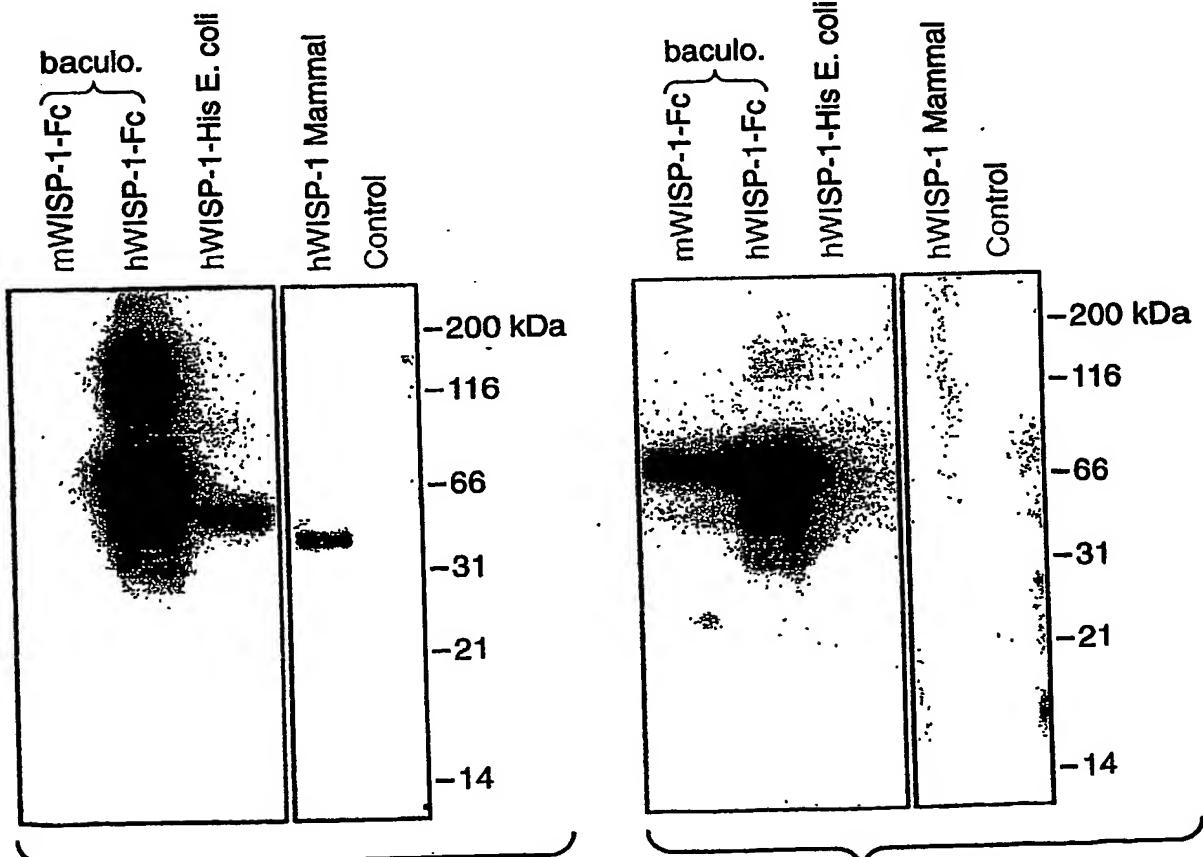
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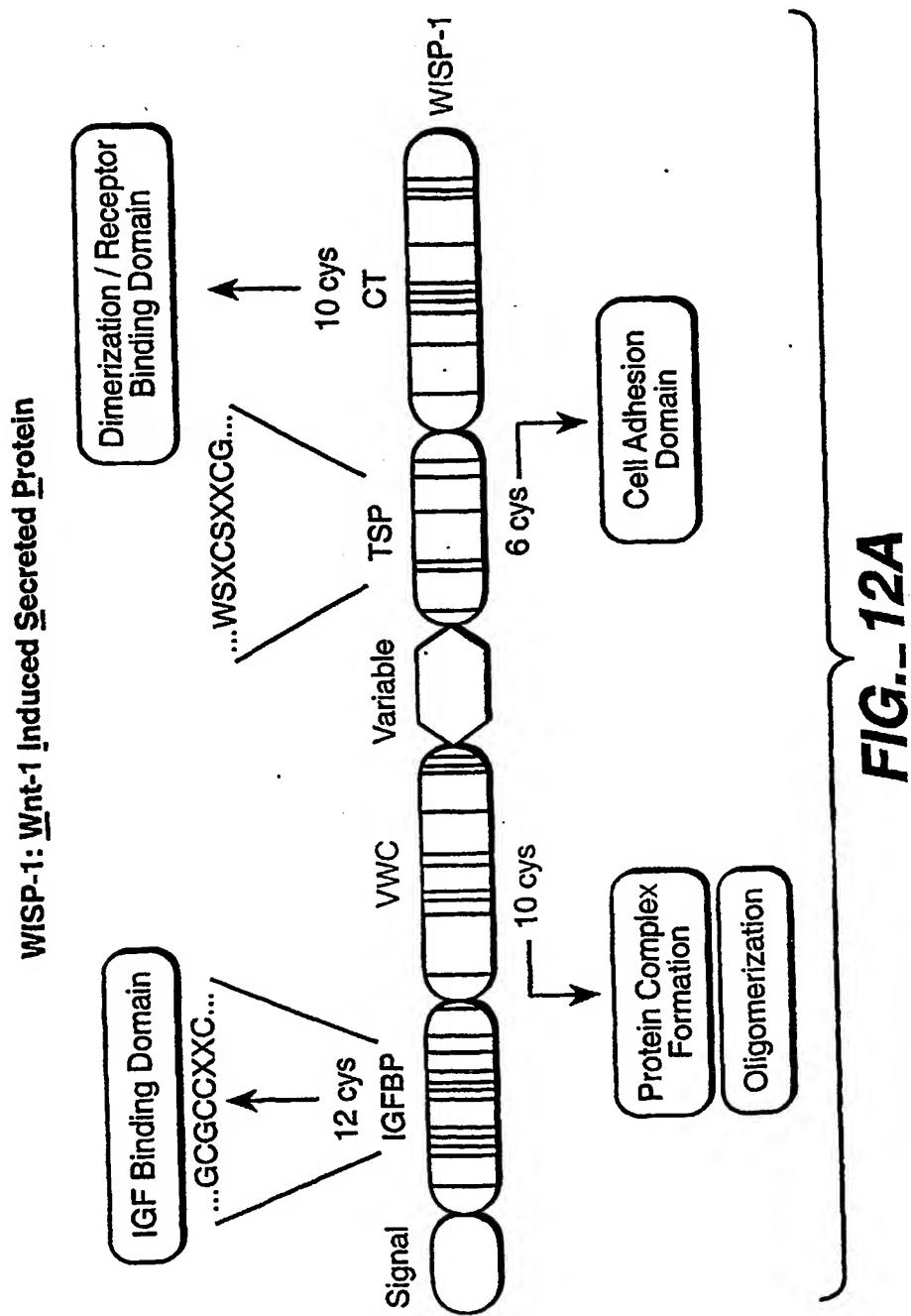
2001 GGCCAGGCTC TTCCCTGAAT CTTCTCCCTT GTCCGTCTTG GTCATAGG AATTGGTAAG GCCTCTGGAC TGGCCTGTCTT GGCCCCTGAG AGTGGTCCCC
CGGTCCGAG AAGGAACCTA GAAGGGAA CAGGACGAA CCAAGTATCC TTAACCATTC CGGAGACCTG ACCGGACAGA CCCGGACTC TCACCACGG
2101 TGGAACACTC CTCTACTCTT ACAGAGCCCTT GAGAGACCCA GCTGCAGACC ATGCCAGACC CACTGAAATG ACCAAGACAG GTTCAGGTAG GGGTGTGGT
ACCTTGTGAG GAGATGAGAA TGTCCTGGAA CTCTCTGGGT CGACGCTCTGG TAGGGTCTGG GTGACTTTAC TGGTCTGTCA AAGTCCATC CCCACACCA
2201 CAAACCAAGA AGTGGGTGCC CTGGGTAGCA GCCTGGGTG ACCCTCTAGAG CTGGAGGCTG TGGGACTCCTCA GGGGCCCG TGTTCAGGAC ACATCTATTG
GTTGGTTCT TCACCCACGG GAAACCATCGT CGAACCCAC TGGAGATCTC GACCTCGAC ACCCTGAGGT CCCGGGGGC ACAAGTCCCTG TGTAGATAC
2301 CAGAGACTCA TTTCACAGCC TTTCGTTCTG CTGACCAAAT GGCCAGTTT CTGGTAGGA GATGGAGGT TACCAAGGTGTT TTAGAAACAG AAATAGACTT
GTCCTGAGT AAAGCTGGG AAGGCAAGAC GACTGGTTTA CGGGTCAAAA GACCATCCTT CTACCTCCAA ATGGTCACA AACCTTGTC TTTATCTGAA
2401 AATAAAGGTT TAAAGCTGAA GAGGTGAAAG CTAAAGGA AAGGTTGTG TTAATGAAATA TCAGGCTATT ATTATATGTA TTAGGAAAT ATTATATTTA
TTATTCCTAA ATTGCTGACTT CTCCAACTTC GATTTTCCTT TTCCAAACAC AATTACTTAT AGTCCTGATA TAATAACAT AACCTTTA TATTATAAT
2501 CTGTTGAAT TCTTTTATT AGGGCCTTT CTGTGCCAGA CATTGCTTC AGTGGTTGC ATGTTATTGC TCACTGAAATC TTCACGACAA TGTGTGAAAG
GACAATCTTA AGAAAATAAA TCCCGGAAA GACIACGGTCT GTAAAGAGAG TCACCAAACG TACATAATG AGTGACTTAG AAGTGTCTGTT ACAACTCTC
2601 TTCCCATTT TATTCTGTT CTTACAAATG TGAACGGAA GCTCATAGAG GTGAGAAAAAC TCAACCAAG AGTGGACTGGG AAAGTTAGGA
AAGGGTAAATA ATAAAGACAA GAATGTTAC ACTTGCCTT CGAGTATCTC CACTCTTGT AGTGGTCTC AGTGGTCTC AGTGGTCTC AGTGGTCTC
2701 TTCAGATCGA AATTGGACTG CCATATTAC TCTTATAAC CCATATTTC CCACTTTT TAGAGCTCC AATGTTGTC GAATAGGGAA ACATGGCAAT AATGGCTG
AAGTCTAGCT TAAACCTGAC AGAAATATTG GGTATAAAG GGGGACAAAA ATCTCGAAGG TTACACAGT CTTATCCCTT TGTAAACGTTA TTACCGAAC
2801 ATTTTAAA AAAAAAAA AAAAAAAA
TAAAMATTI TTTTTTTTTT TTTTTTTTTT

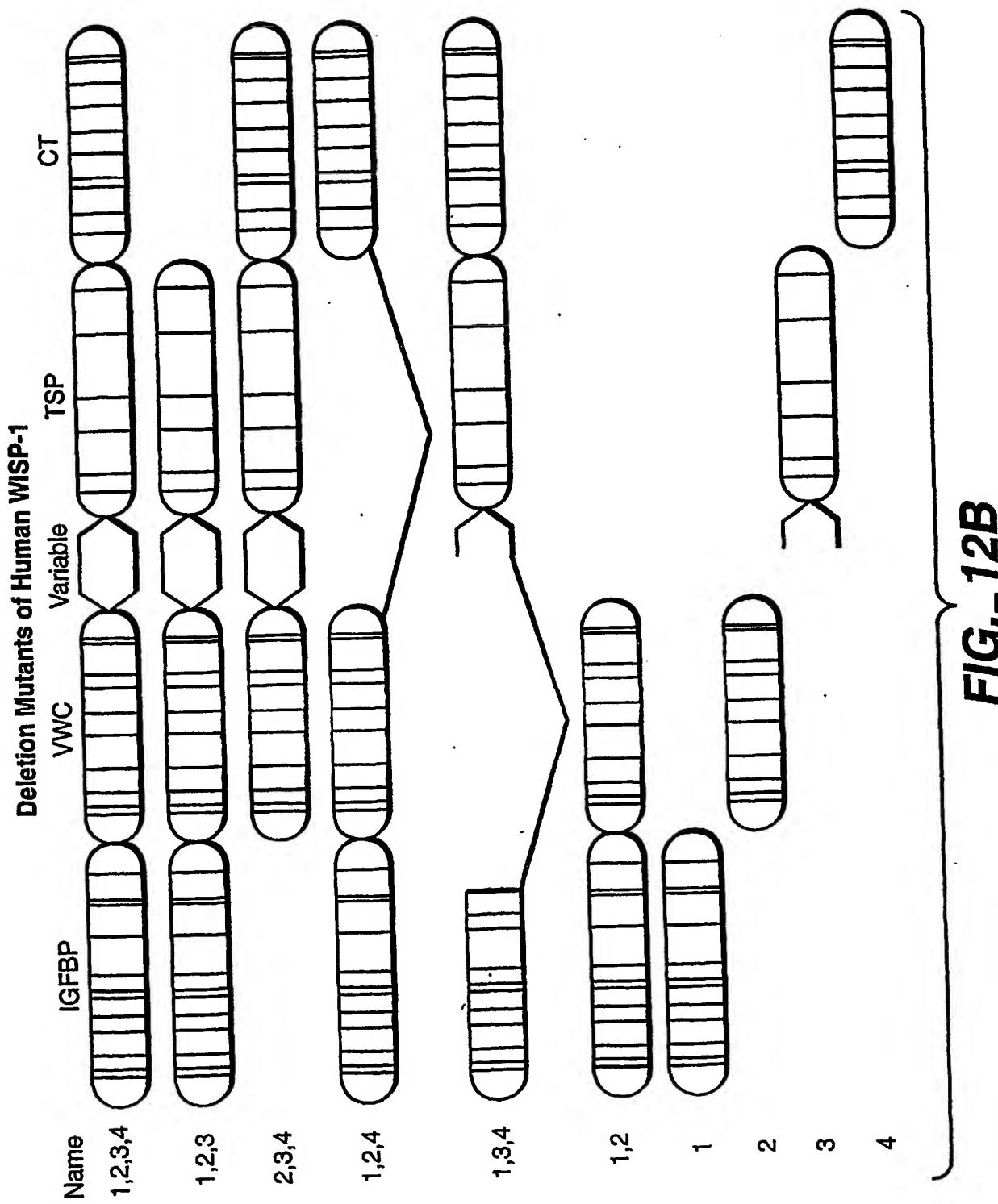
FIG.- 9C

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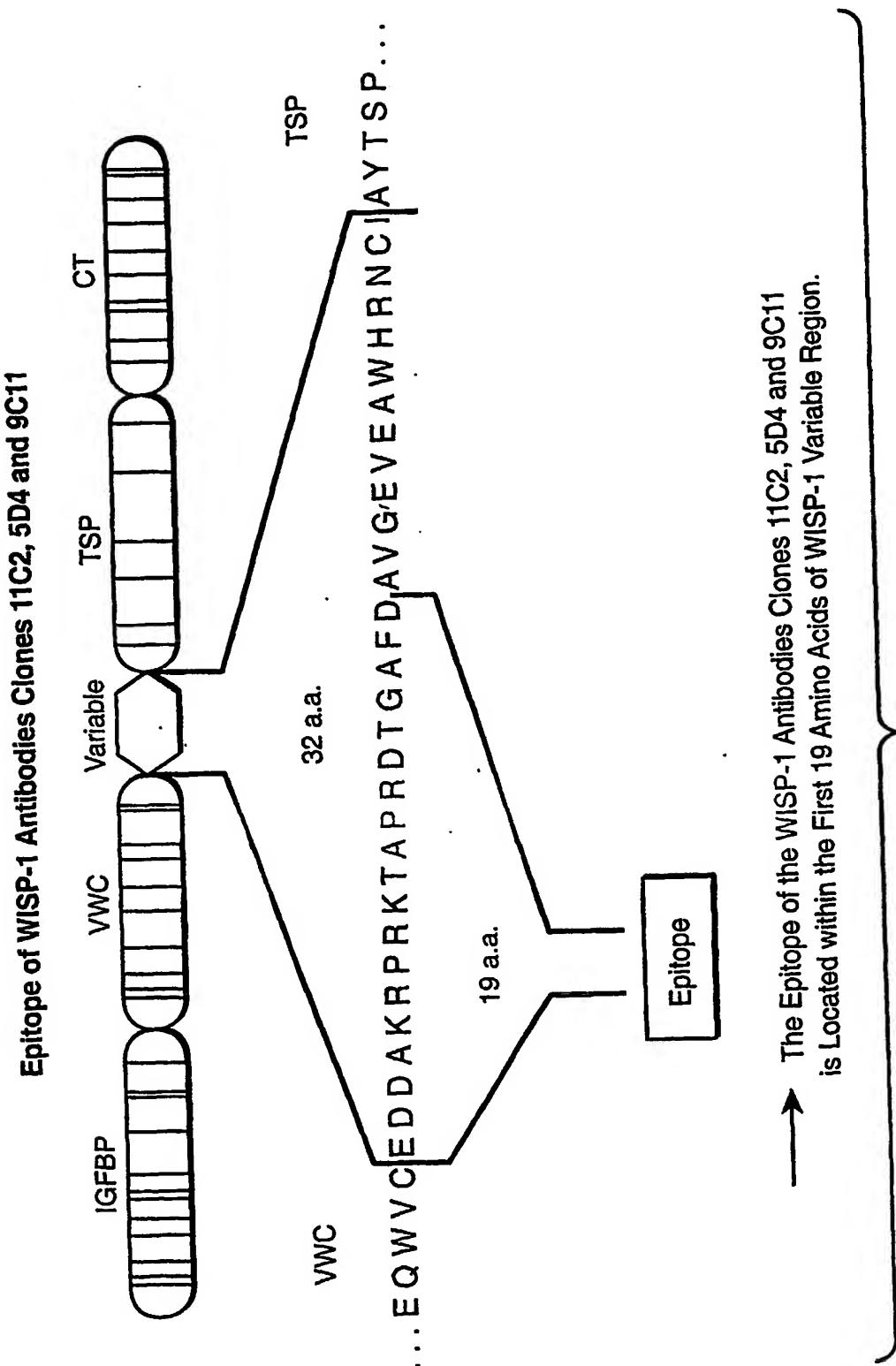
		Effect of WISP-1 Expression on NRK Metastatic Potential		
No. Cells Injected	Weeks after Innoculation	Incidence of Lung Metastasis		
		NRK/Control	NRK/WISP-1L	NRK/WISP-1H
2.5×10^5	2	0/1	0/1	2/2 (Grade I)
	3	0/4	3/3 (Grade I)	4/4 (Grade I-II)
	4	0/4	4/4 (Grade I)	3/3 (Grade III)
0.5×10^5	2	0/2	0/2	1/2 (Grade I)
	3	0/4	2/4 (Grade I)	3/4 (Grade I)
	4	0/4	4/4 (Grade I)	3/4 (Grade I-II)

FIG._10**FIG._11A****FIG._11B**

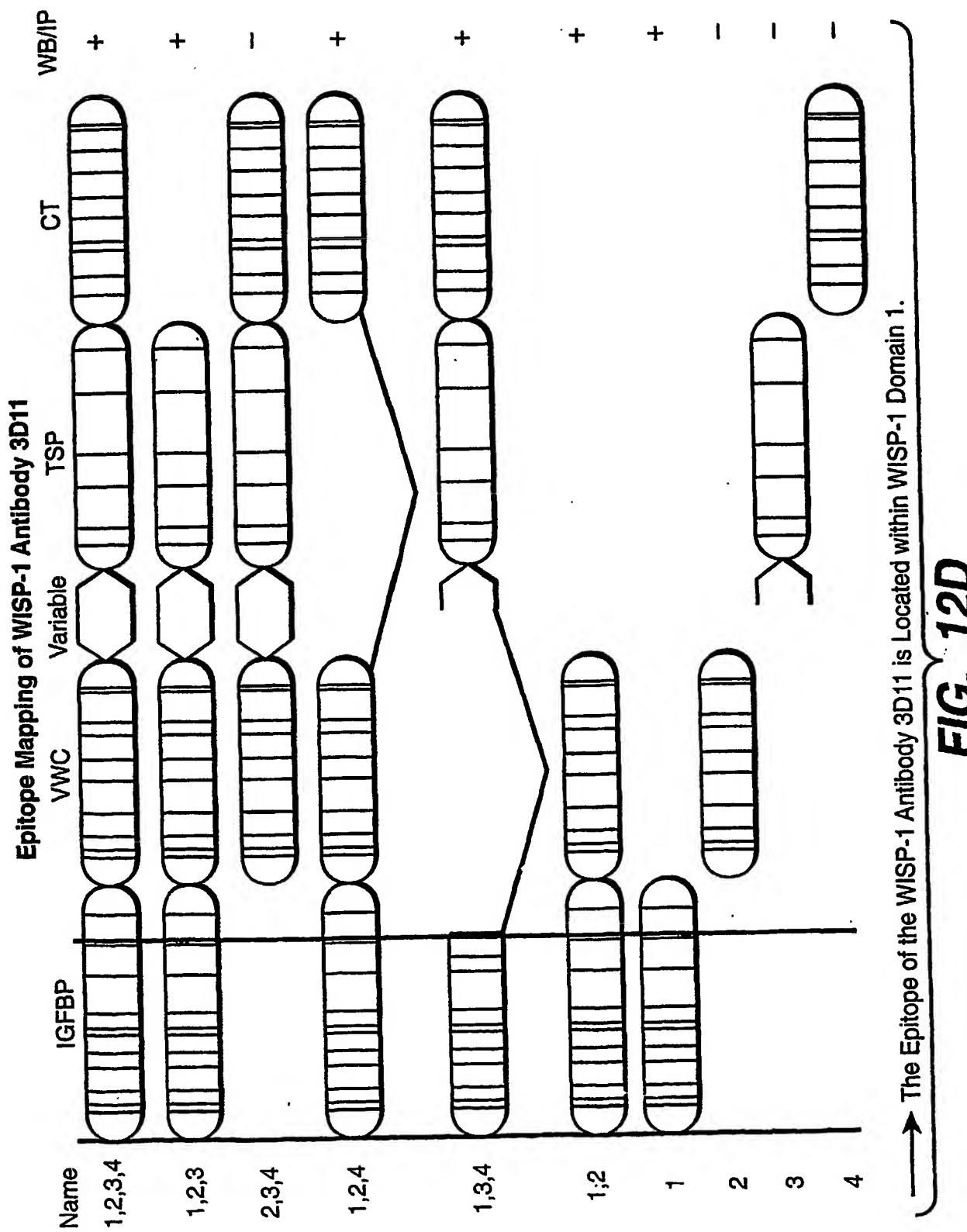




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**FIG.- 12C**

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**FIG._12D**

→ The Epitope of the WISP-1 Antibody 3D11 is Located within WISP-1 Domain 1.

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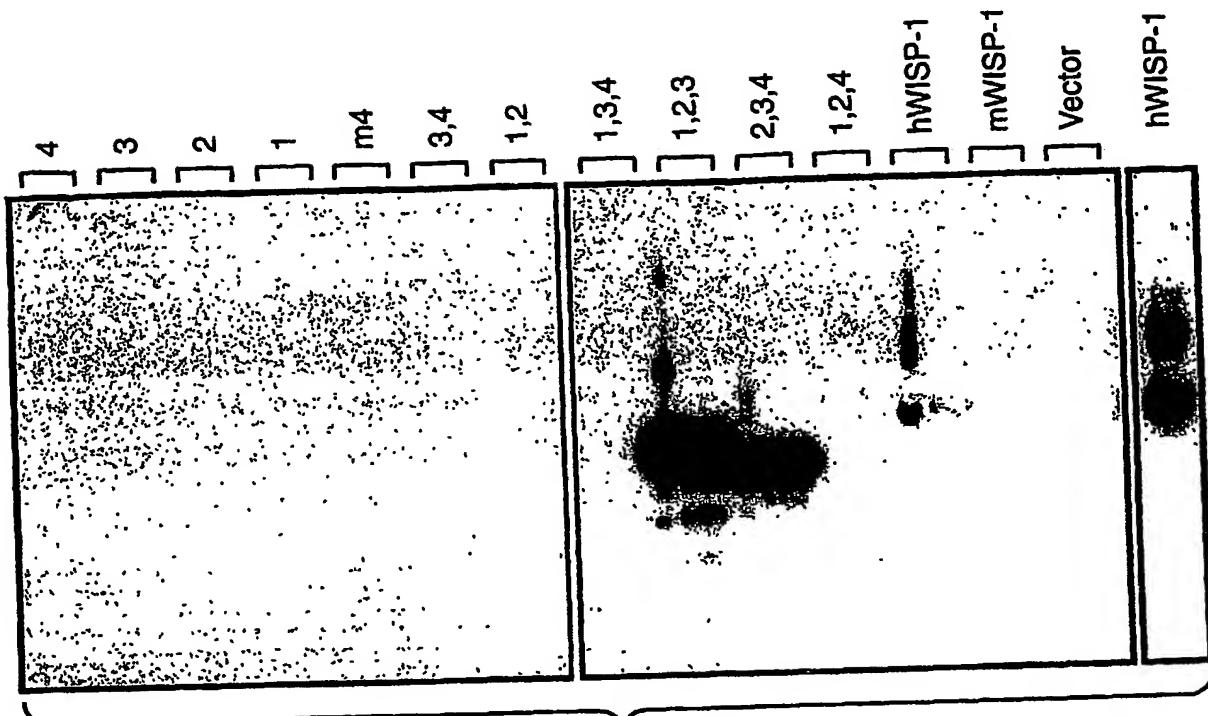


FIG._ 12E

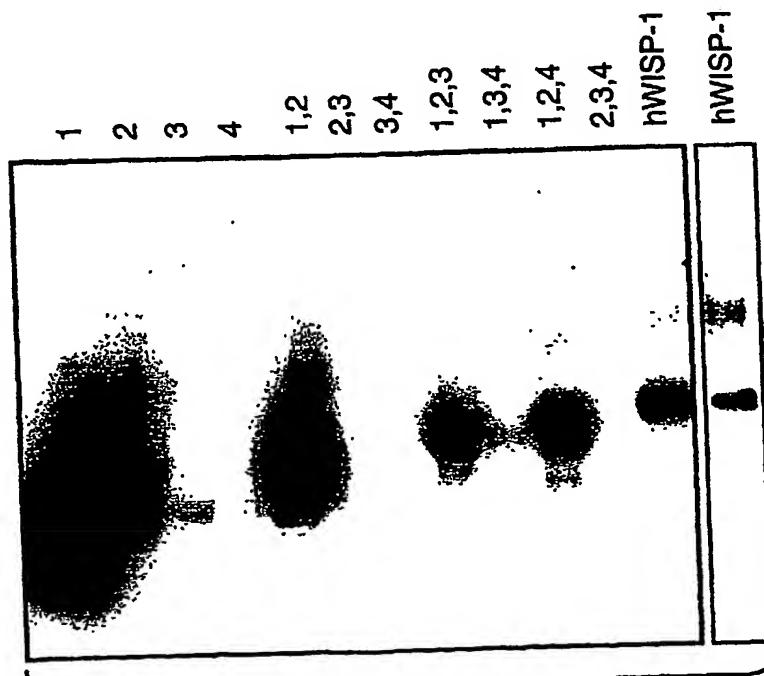
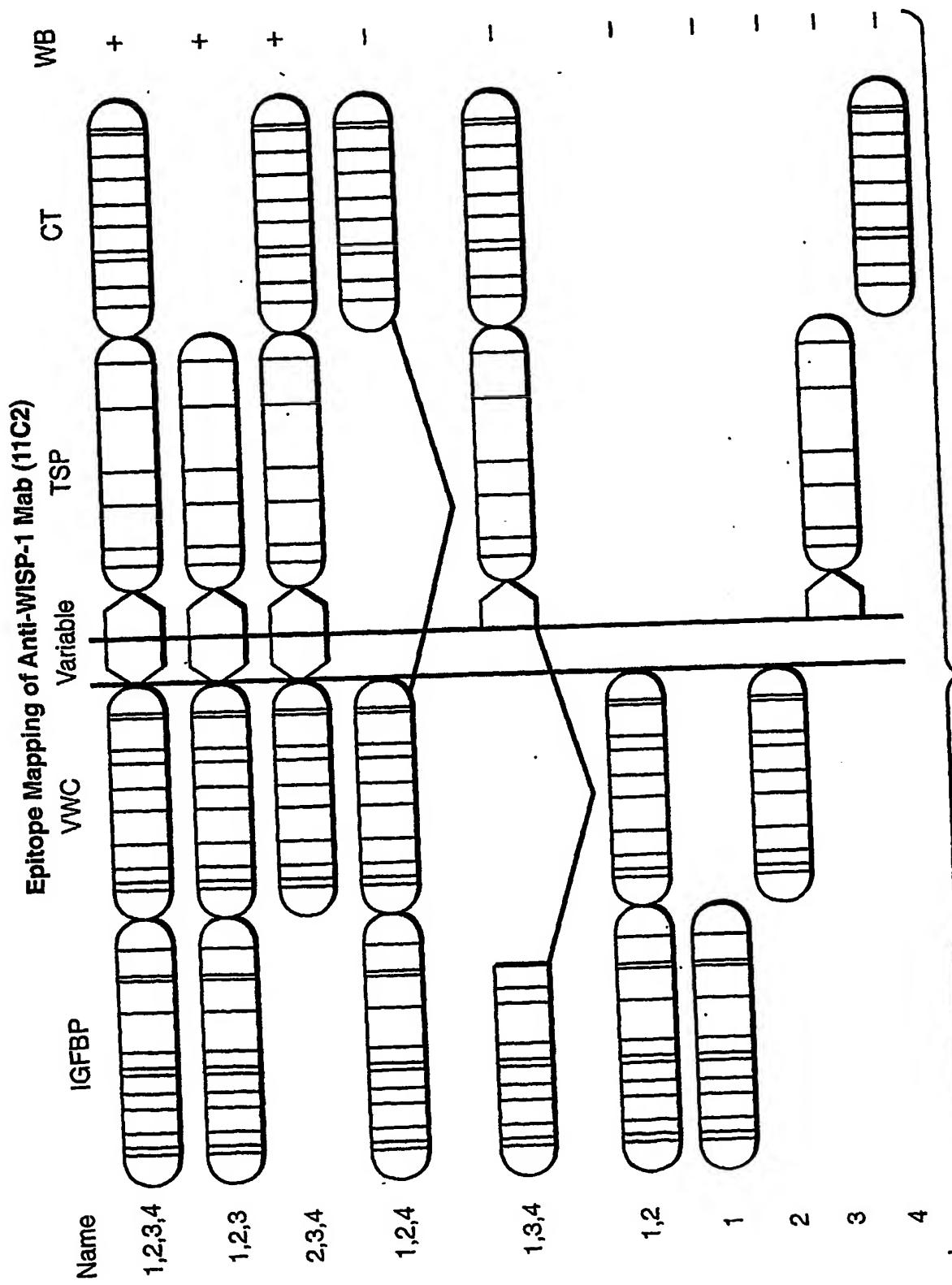


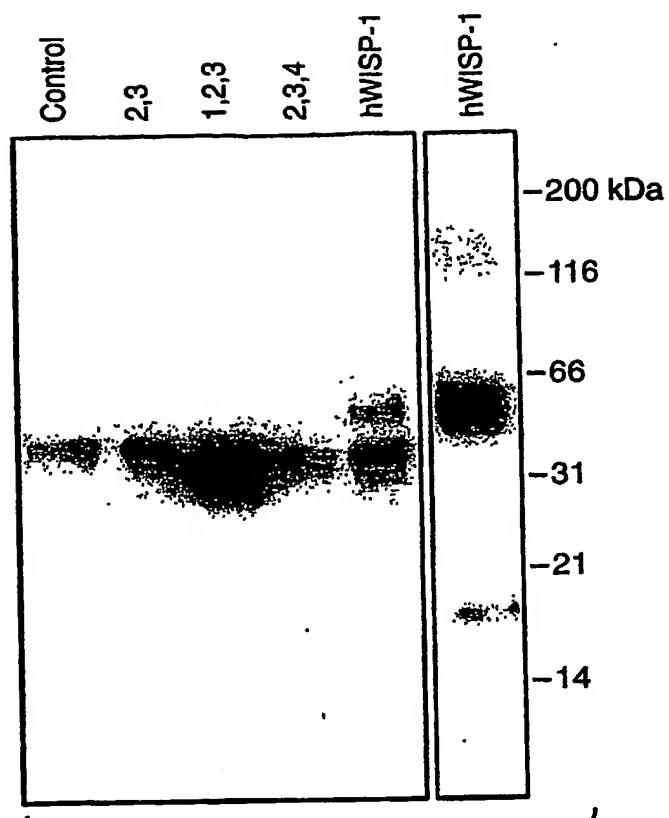
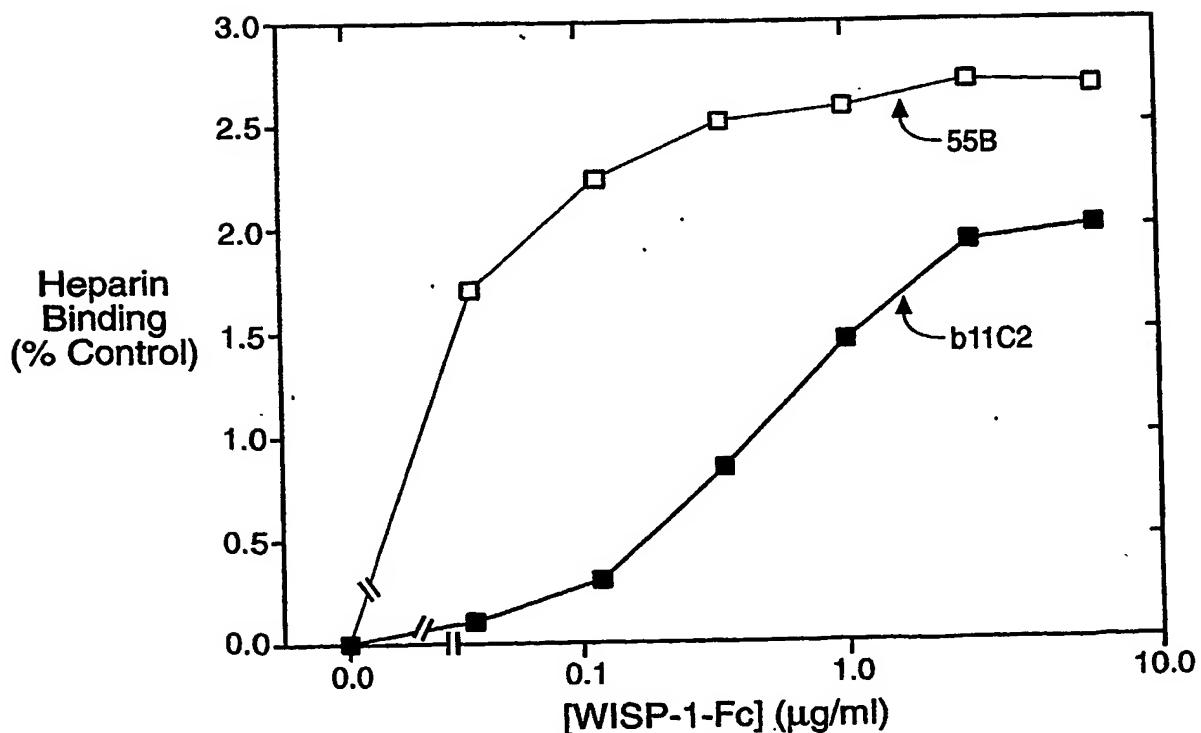
FIG._ 12F

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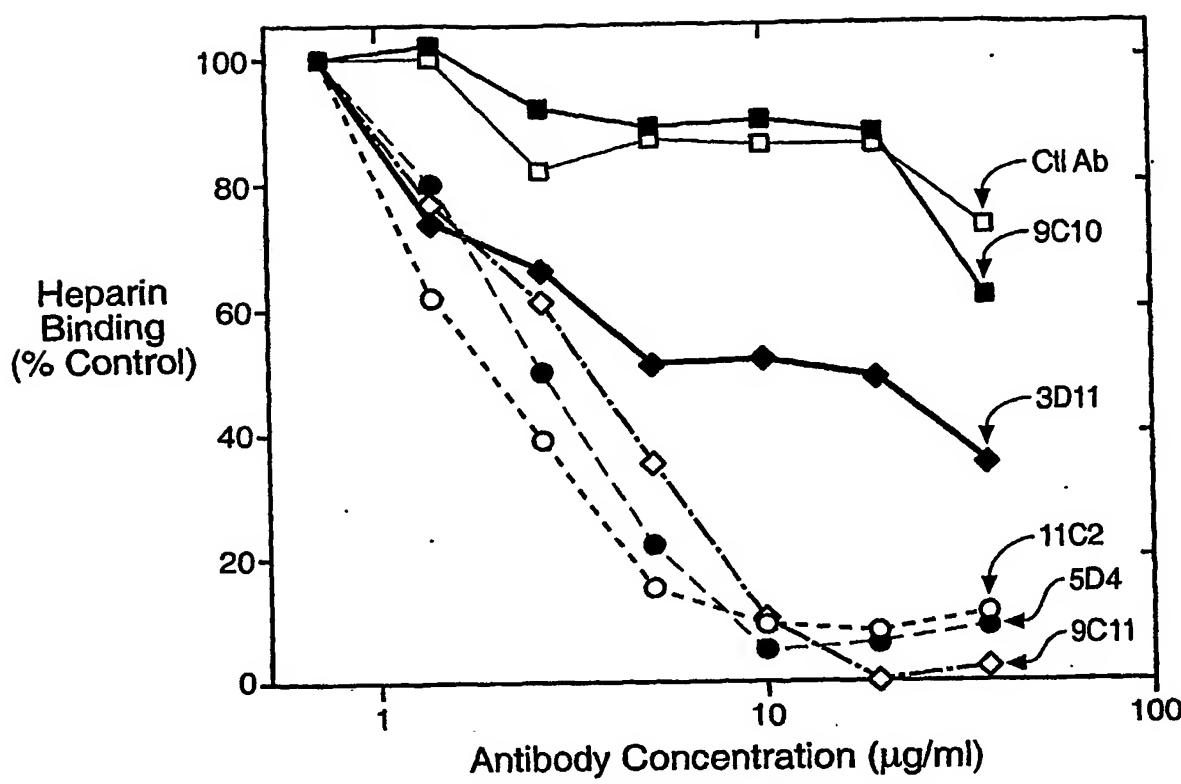
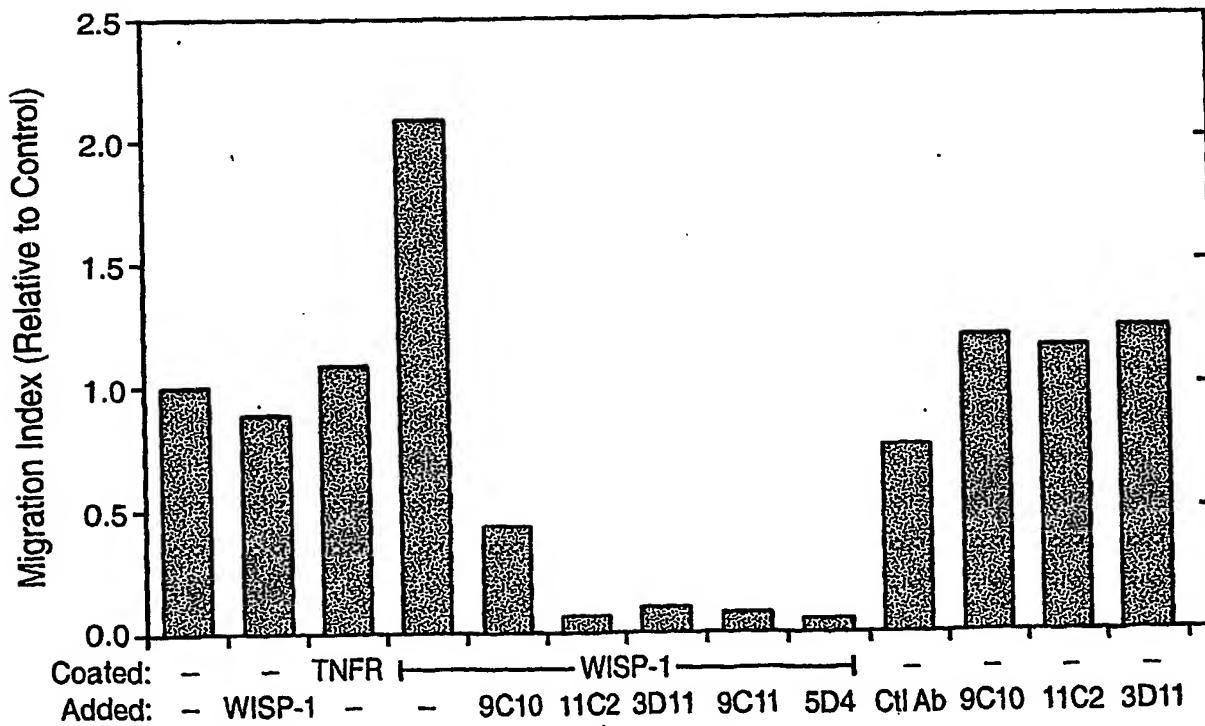
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**FIG._12G**

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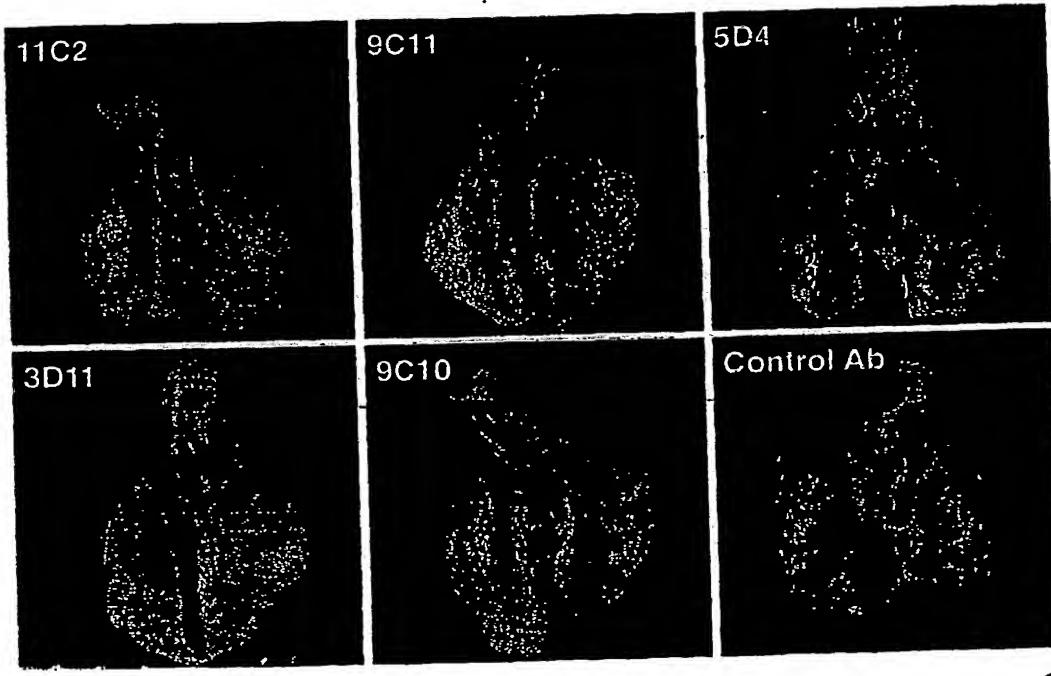
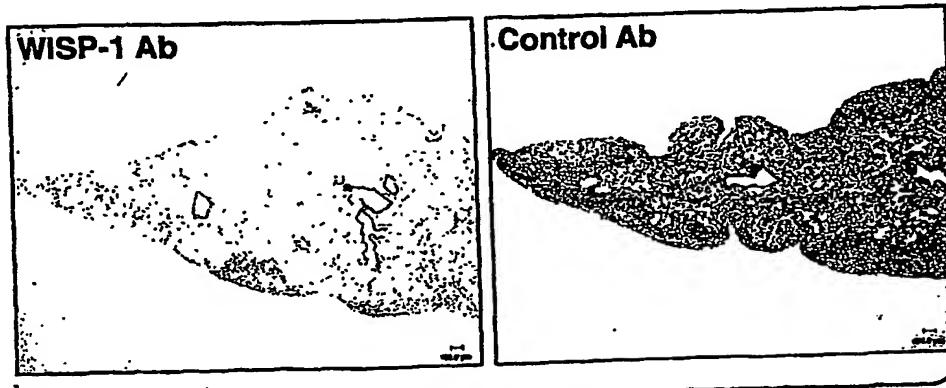
**FIG. 13****FIG. 14**

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**FIG.. 15****FIG.. 16A**

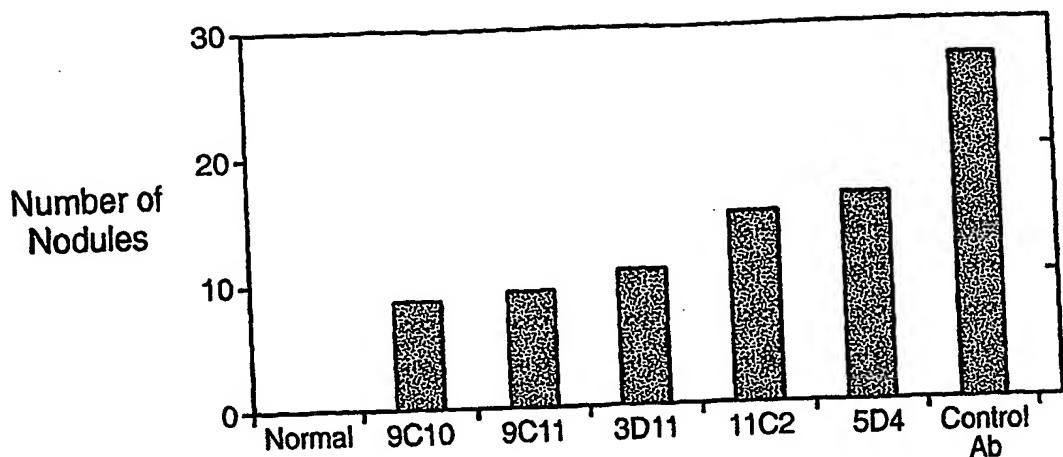
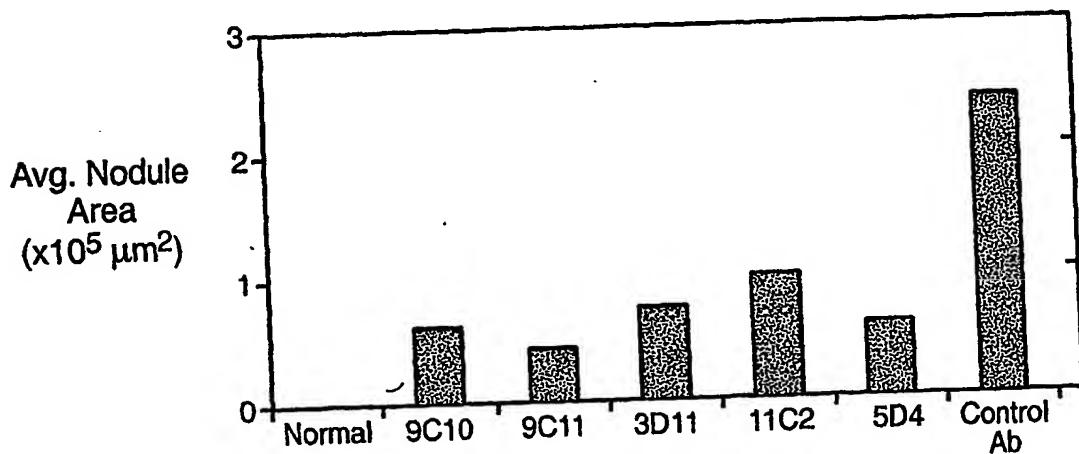
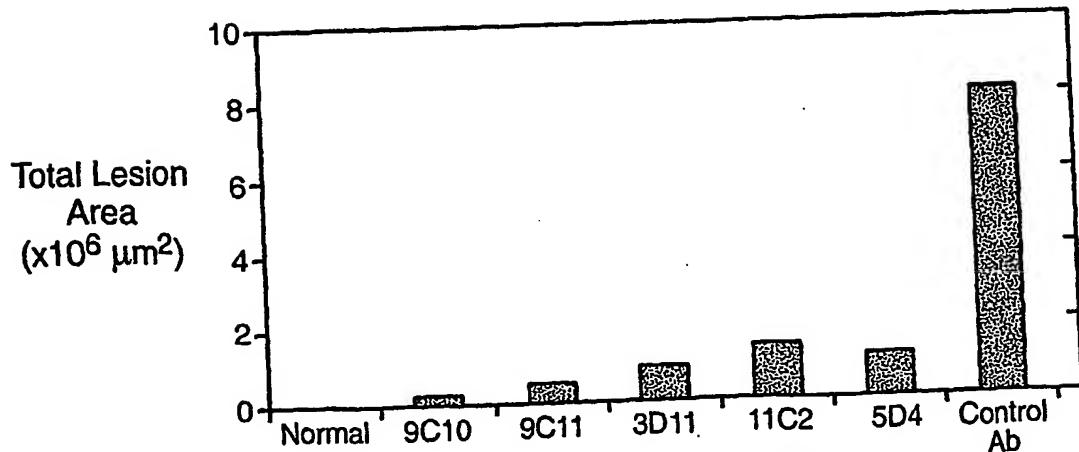
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WISP-1 Antibodies Characterization								
Clones	Isotype	Epitope		IP	WB	Blocking Activity		
		Struct.	Cross Compet.			Heparin Binding	Cell Migrat.	Lung Met.
3D11	2b	Domain 1	A	-	+	+/-	+	+
9C10	2b	Domain 1	B	+	-	-	+	+
11C2	2b	Variable Region	C	+	+	+	+	+
5D4	2a	Variable Region	C	+	+	+	+	+
9C11	2a	Variable Region	C	+	+	+	+	+

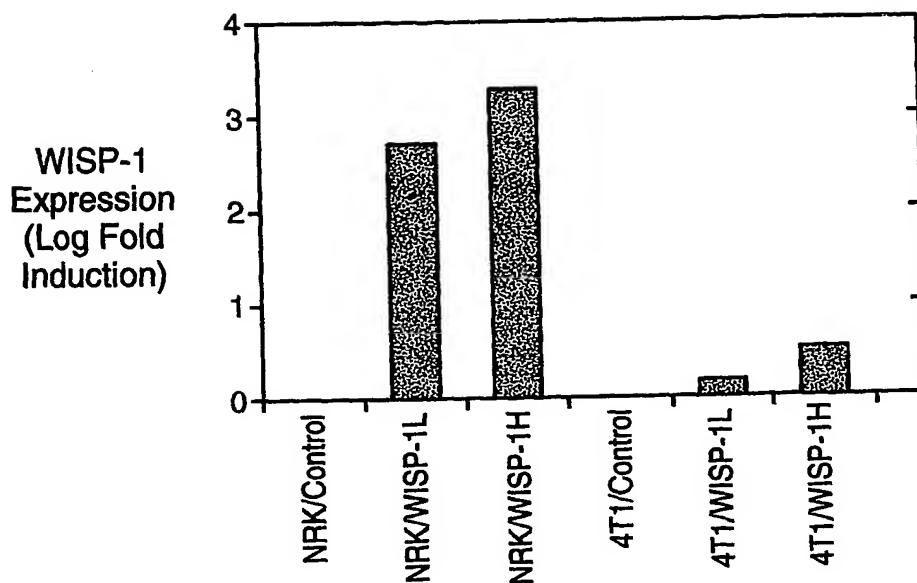
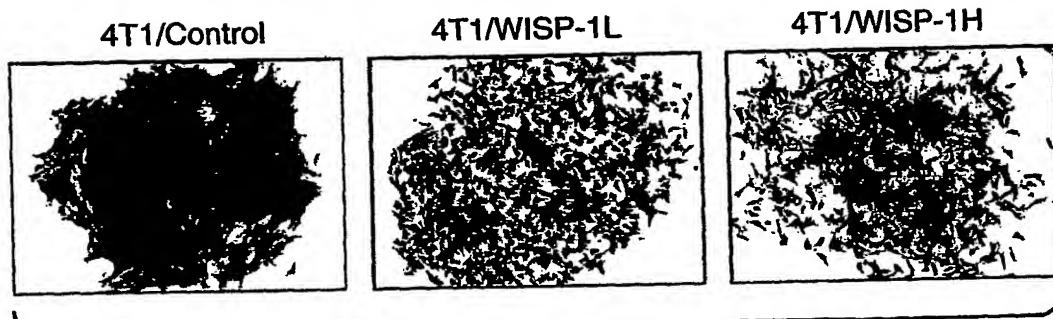
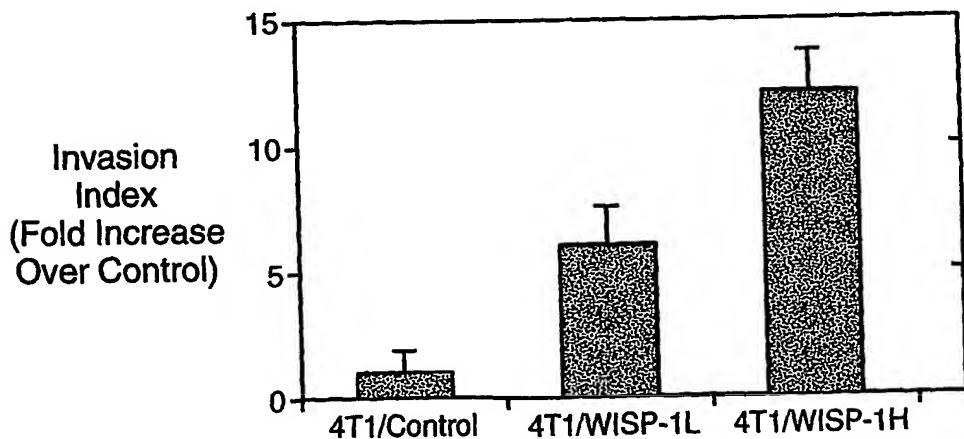
FIG._16B**FIG._17A****FIG._17B**

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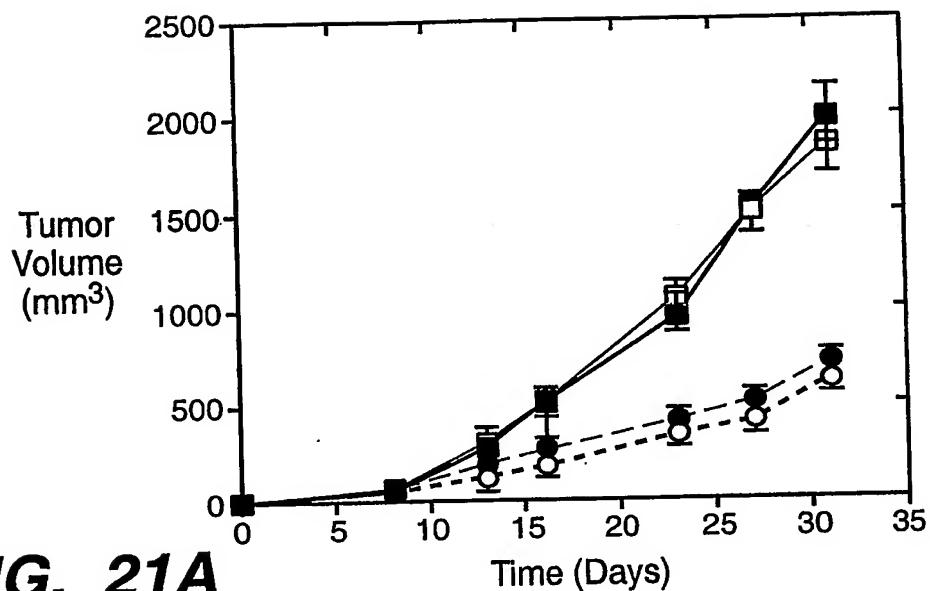
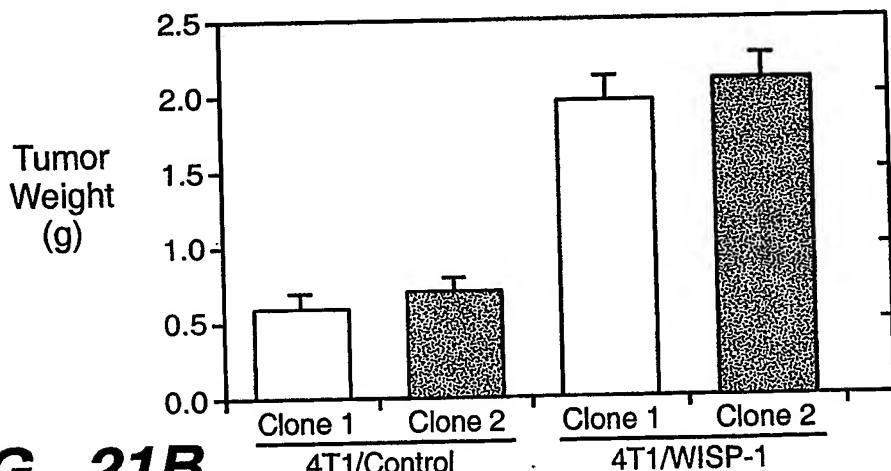
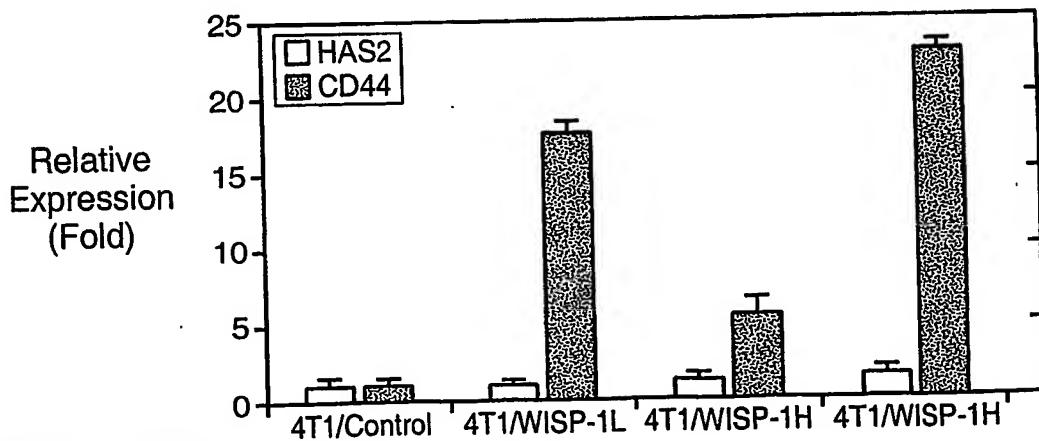
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**FIG.- 17C****FIG.- 17D****FIG.- 17E**

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**FIG._ 18****FIG._ 19****FIG._ 20**
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**FIG._21A****FIG._21B****FIG._22**

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FIG._23B**FIG._23A****FIG._23D****FIG._23C****FIG._23E**

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